

GRACE OIL COMPANY
 GINGER FEDERAL #1
 EAST ROSS DRAW FIELD
 EDDY COUNTY, NEW MEXICO

DATE : 8-6-87
 FORMATION : DELAWARE
 DRLG. FLUID: WATER BASE MUD
 LOCATION : 1880' FEL & 460' FSL, SEC. 24, T-26-S, R-30-E

FILE NO. : 43202-15366
 API WELL NO.:
 LABORATORY : MIDLAND, TEXAS

FULL DIAMETER ANALYSIS

SAMPLE NUMBER DEPTH FEET PERM MAXIMUM PERM 90 DEG PERM VERTICAL HE POR OIL% POR WTR% POR GRAIN DEN M DESCRIPTION

CORE NO. 1 4078.0-4136.0 CUT 58' REC 56'

1	4078.0-90.0																			NA SLT V/SHY LAM
2	4090.0-91.0	0.28	0.18	<0.01	12.0	0.0	66.3	2.66												SLT SL/SHY LAM
3	4091.0-92.0	0.35	0.32	0.13	12.2	0.0	66.8	2.67												SLT SL/SHY LAM
4	4092.0-93.0	0.33	0.28	0.04	12.7	0.0	82.3	2.67												SD SL/LMY
5	4093.0-94.0	0.54	0.52	0.24	12.5	0.0	67.6	2.67												SD SL/LMY
6	4094.0-95.0	7.4	7.1	6.5	16.1	0.0	56.6	2.66												SD SL/LMY
7	4095.0-96.0	13.	13.	5.5	18.1	0.0	56.6	2.67												SD SL/LMY
8	4096.0-97.0	15.	15.	15.	18.1	0.0	57.2	2.66												SD SL/LMY
9	4097.0-98.0	9.8	18.	0.78	14.8	0.0	55.1	2.67												SD SL/LMY
10	4098.0-99.0	3.6	2.7	2.9	14.3	0.0	58.9	2.67												SD SL/LMY
11	4099.0-0.0	5.0	4.8	3.6	16.4	0.0	61.0	2.67												SD SL/LMY
12	4100.0-1.0	5.9	5.8	5.6	17.0	0.0	60.8	2.67												SD SL/LMY
13	4101.0-2.0	6.4	6.1	5.2	16.8	0.0	63.2	2.67												SD SL/LMY
14	4102.0-3.0	6.4	6.0	5.9	17.0	0.0	78.2	2.65												SD SL/LMY
15	4103.0-4.0	6.7	6.5	5.6	16.9	0.0	78.9	2.64												SD SL/LMY
16	4104.0-5.0	4.4	4.2	4.2	16.7	0.0	62.5	2.65												SD SL/LMY
17	4105.0-6.0	7.0	4.4	3.3	16.4	0.0	61.3	2.66												SD SL/LMY
18	4106.0-7.0	0.39	0.26	<0.01	7.9	0.0	65.7	2.67												LMY
19	4107.0-8.0	1.9	1.7	0.10	13.6	0.0	63.9	2.66												LMY
20	4108.0-9.0	2.6	2.6	1.0	15.9	0.0	66.4	2.65												SD SL/LMY
21	4109.0-10.0	3.6	3.6	0.95	15.6	0.0	61.6	2.65												SD SL/LMY SL/SHY LAM
22	4110.0-11.0	33.	32.	31.	18.2	0.0	67.7	2.61												SD SL/LMY
23	4111.0-12.0	0.24	0.17	0.08	7.0	0.0	75.0	2.67												SD LMY SL/SLTY LAM
24	4112.0-13.0	21.	17.	8.1	17.0	0.0	77.5	2.64												SD LMY

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SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	PERM VERTICAL	HE POR	OIL% POR	WTRZ POR	GRAIN DEN M	DESCRIPTION
24	4113.0-14.0	21.	20.	13.	19.1	0.0	70.5	2.64	SD SL/LMY
25	4114.0-15.0	4.8	4.8	1.7	17.1	0.0	63.5	2.66	SD SL/LMY SL/SLTY LAM
26	4115.0-16.0	5.3	4.3	1.7	17.5	0.0	62.7	2.67	SD SL/LMY SL/SLTY LAM
27	4116.0-17.0	4.5	4.3	1.2	17.4	0.0	62.6	2.66	SD SL/LMY SL/SLTY LAM
28	4117.0-18.0	4.3	4.3	1.2	18.0	0.0	16.8	2.68	SD SL/LMY SL/SLTY LAM
29	4118.0-19.0	4.0	3.8	1.0	17.7	0.0	63.5	2.66	SD SL/LMY SL/SLTY LAM
30	4119.0-20.0	2.6	2.6	0.27	17.1	0.0	64.4	2.67	SD LMY SHY LAM
31	4120.0-21.0	0.76	0.59	0.21	14.7	0.0	65.0	2.68	SD LMY SHY LAM
32	4121.0-22.0								SAMPLE DESTROYED SLT V/SDY SL/LMY LAM
33	4122.0-23.0	0.08	0.08	<0.01	13.7	0.0	69.7	2.69	SLT SDY SL/LMY LAM
34	4123.0-24.0								SAMPLE DESTROYED SLT SDY SL/LMY LAM
35	4124.0-25.0	3.3	3.1	<0.01	16.9	0.0	64.1	2.67	SD SL/LMY SL/SLTY LAM
36	4125.0-26.0	3.8	3.8	<0.01	18.1	0.0	64.4	2.67	SD SL/LMY SL/SLTY LAM
37	4126.0-27.0	3.6	3.4	0.10	18.3	0.0	62.1	2.67	SD SL/LMY SL/SLTY LAM
38	4127.0-28.0	2.9	2.8	0.13	18.1	0.0	63.5	2.67	SD SL/LMY SL/SLTY LAM
39	4128.0-29.0	2.0	2.0	0.06	17.3	0.0	64.7	2.66	SD SL/LMY SL/SLTY LAM
40	4129.0-30.0	3.6	3.5	0.28	17.0	0.0	63.9	2.66	SD SL/LMY SL/SLTY LAM
41	4130.0-31.0	1.3	1.3	0.15	12.3	0.0	65.1	2.67	SD LMY SL/SLTY LAM
42	4131.0-32.0	3.1	3.1	0.14	17.0	0.0	61.2	2.66	SD SL/LMY SL/SLTY LAM
43	4132.0-33.0	1.5	1.4	0.35	15.2	0.0	62.9	2.66	SD SL/LMY SL/SLTY LAM
44	4133.0-34.0	2.6	2.6	0.10	16.3	0.0	50.4	2.66	SD SL/LMY SL/SLTY LAM
	4134.0-98.0								DRILLED INTERVAL

CORE NO. 2 5798.0-5858.0 CUT 60' REC 59'

45	5798.0-99.0	0.06	0.06	<0.01	8.5	0.0	83.6	2.67	SLT SL/SDY
46	5799.0-0.0	0.04	0.02	<0.01	10.4	1.0	79.7	2.65	SLT SL/SHY LAM